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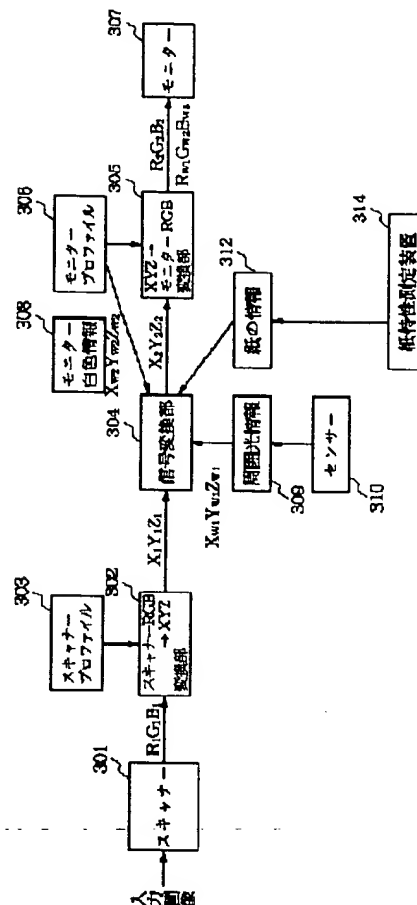
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TITLE : DEVICE AND METHOD FOR
PROCESSING IMAGE AND
RECORDING MEDIUM



ABSTRACT : PROBLEM TO BE SOLVED: To match a color displayed in a self light-emitting manner under optional environment light and the color obtained by the reflection of illumination light or the like by performing chrominance signal conversion, based on the white of a recording medium and the white of the environment light.

SOLUTION: $R_1G_1B_1$ data obtained from a scanner 301 are converted into chrominance signals $X_1Y_1Z_1$, independently of a device in a scanner RGB \rightarrow XYZ conversion part 302 based on the scanner characteristic information of a scanner profile 303. In a signal conversion part 304, based on the information 309 of ambient light obtained from a sensor 310, information 312 for paper obtained from a colorimetry device 314 and monitor white information 308 obtained from a monitor profile 306, reference white is obtained and conversion to the chrominance signals $X_2Y_2Z_2$ considered so as to make a printer matter and a display object on a monitor supply the same color appearance under observation environment is performed by using it. Based on the monitor characteristic information of the monitor profile 306, in an XYZ \rightarrow monitor RGB conversion part 305, the $X_2Y_2Z_2$ signals are converted into monitor device signals $R_2G_2B_2$.

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